






Channel estimation using a sliding window technique**Publication number:** EP0954142**Publication date:** 1999-11-03**Inventor:** LUSCHI CARLO (GB); YAN RAN-HONG (GB);
SPEIGHT TIMOTHY JAMES (GB)**Applicant:** LUCENT TECHNOLOGIES INC (US)**Classification:****- international:** *H04L25/02; H04L25/02; (IPC1-7): H04L25/02***- European:** H04L25/02C3C; H04L25/02C7C**Application number:** EP19980303326 19980428**Priority number(s):** EP19980303326 19980428**Also published as:** WO9956440 (A1)**Cited documents:** EP0496152
 EP0829988
 WO9013187
 XP002077506**Report a data error here****Abstract of EP0954142**

The invention provides a method for channel estimation in mobile radio communications which adaptively compensates for channel distortion on a block-by-block basis. The discrete-time channel impulse response is initially estimated with a given length and then truncated by using a sliding window. A cost function associated with the window is measured as the length and position of the window is adjusted over the channel impulse response and the cost function is compared with a threshold. The invention provides means to and a method for adaptively adjusting the length of the window LT and the corresponding number of states in the equalizer, $2^{L-T} - 1$ if appropriate.

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